

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086259.D
 Acq On : 14 Apr 2025 11:03
 Operator : JC\MD
 Sample : VN0414WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0414WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/16/2025
 Supervised By : Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 15 03:05:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.818	128	36062	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	212146	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	188770	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	103894	29.537	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.467%		
60) 4-Bromofluorobenzene	12.847	95	111425	29.647	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.833%		
63) Toluene-d8	10.565	98	318483	29.884	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.600%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	54070	18.713	ug/l	98
3) Chloromethane	2.359	50	71999	18.029	ug/l	100
4) Vinyl Chloride	2.512	62	69656	18.312	ug/l	95
5) Bromomethane	2.959	94	34406	18.133	ug/l	96
6) Chloroethane	3.124	64	44882	18.685	ug/l	98
7) Trichlorofluoromethane	3.501	101	78678	19.068	ug/l	100
8) Diethyl Ether	3.959	74	38193	20.071	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	48840	19.195	ug/l	98
10) 1,1-Dichloroethene	4.342	96	49445	18.006	ug/l	99
11) Methyl Iodide	4.589	142	59902	18.980	ug/l	98
12) Methyl Acetate	5.024	43	80774	20.830	ug/l	97
13) Acrolein	4.177	56	48066	109.048	ug/l	96
14) Acrylonitrile	5.712	53	161179	98.458	ug/l	99
15) Acetone	4.424	58	40894	98.522	ug/l	94
16) Carbon Disulfide	4.712	76	142937	18.153	ug/l	99
17) Allyl chloride	5.018	41	86865	18.150	ug/l	98
18) Methylene Chloride	5.271	84	58725	18.757	ug/l	96
19) trans-1,2-Dichloroethene	5.789	96	53567	18.520	ug/l	97
20) Diisopropyl ether	6.671	45	206398	20.060	ug/l	96
21) 1,1-Dichloroethane	6.565	63	105602	19.237	ug/l	100
22) cis-1,2-Dichloroethene	7.483	96	65882	19.121	ug/l	99
23) tert-Butyl Alcohol	5.512	59	69667	102.708	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	201225	20.306	ug/l	99
25) Chloroform	7.965	83	103843	19.837	ug/l	98
26) Cyclohexane	8.253	56	95417	18.579	ug/l #	100
29) 1,1-Dichloropropene	8.365	75	75526	19.873	ug/l	97
30) 2-Butanone	7.477	43	220855	104.878	ug/l	99
31) 2,2-Dichloropropane	7.489	77	93559	20.000	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	85744	19.614	ug/l	99
33) Carbon Tetrachloride	8.359	117	69889	20.005	ug/l	97
34) Benzene	8.600	78	242368	20.046	ug/l #	95
35) Methacrylonitrile	7.771	41	50804	21.400	ug/l	97
36) 1,2-Dichloroethane	8.665	62	79625	21.045	ug/l	97
37) Trichloroethene	9.347	130	59060	20.246	ug/l	95
38) Methylcyclohexane	9.600	83	87606	18.796	ug/l	99
39) 1,2-Dichloropropane	9.618	63	61825	20.550	ug/l	98
40) Dibromomethane	9.706	93	40620	20.905	ug/l	96
41) Bromodichloromethane	9.882	83	85287	20.431	ug/l	98
42) Vinyl Acetate	6.600	43	738325	103.000	ug/l	99

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Quant Time: Apr 15 03:05:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	86606	20.390	ug/l	97
44) Isopropyl Acetate	8.683	43	156559	19.868	ug/l	100
45) 1,4-Dioxane	9.694	88	26556	423.818	ug/l #	94
46) Methyl methacrylate	9.677	41	70947	20.434	ug/l	96
47) n-amyl Acetate	12.488	43	123569	19.779	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	96008	20.344	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	104035	20.829	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	56786	20.837	ug/l	98
51) Ethyl methacrylate	10.871	69	105789	20.888	ug/l	96
52) 1,3-Dichloropropane	11.159	76	100971	20.787	ug/l	99
53) Dibromochloromethane	11.353	129	62263	20.887	ug/l	98
54) 1,2-Dibromoethane	11.465	107	57757	20.995	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	271407	141.822	ug/l	99
56) Bromoform	12.576	173	41780	21.423	ug/l #	99
58) 4-Methyl-2-Pentanone	10.441	43	450944	105.268	ug/l	99
59) 2-Hexanone	11.194	43	331870	104.040	ug/l	99
61) Tetrachloroethene	11.100	164	57897	20.769	ug/l	97
62) Toluene	10.630	91	254946	20.136	ug/l	100
64) Chlorobenzene	11.888	112	157296	20.334	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	53903	21.115	ug/l	99
66) Ethyl Benzene	11.959	91	281296	20.033	ug/l	99
67) m/p-Xylenes	12.071	106	212715	40.741	ug/l	98
68) o-Xylene	12.394	106	106466	20.731	ug/l	97
69) Styrene	12.406	104	178420	20.600	ug/l	98
70) Isopropylbenzene	12.694	105	255832	20.204	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	76539	21.236	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	77799m	20.737	ug/l	
73) Bromobenzene	12.976	156	58234	20.760	ug/l	99
74) n-propylbenzene	13.029	91	302453	20.228	ug/l	100
75) 2-Chlorotoluene	13.123	91	190051	20.222	ug/l	100
76) 1,3,5-Trimethylbenzene	13.171	105	211804	20.362	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	35624	20.593	ug/l	93
78) 4-Chlorotoluene	13.218	91	187622	19.990	ug/l	99
79) tert-butylbenzene	13.435	119	177378	19.708	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	214794	20.364	ug/l	98
81) sec-Butylbenzene	13.612	105	248141	19.764	ug/l	100
82) p-Isopropyltoluene	13.723	119	207375	19.800	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	106668	20.459	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	107111	20.479	ug/l	100
85) n-Butylbenzene	14.053	91	184228	19.498	ug/l	99
86) Hexachloroethane	14.329	117	34967	19.792	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	106853	20.757	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	16765	20.422	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	51313	20.486	ug/l	100
90) Hexachlorobutadiene	15.494	225	20003	18.496	ug/l	98
91) Naphthalene	15.635	128	202577	20.513	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	51313	20.486	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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